BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK:- IMPROVEMENTS OF ROADS AND DRAIN IN VAYANANDANA LAYOUT & NETHAJI NAGARA IN WARD NO. 07.KODIGEHALLI SUB DIVISION.

ESTIMATED COST 1450000.00

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate in Rs	Amount in Rs
1	KSRRB M300-2: Earth work excavation by manual means in Ordinary Soil involving an average horizontal throw up to 2mts and an average lift up to 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3.								
	(P.No.149, I.No.19.1 of PW,P&IWTD S.R 2011-12)								
	For removing of silt in Existing drain	Cum							
			2	190.00	0.40	0.45	68.40		
							68.40	62.86	**4299.00**
	Basic Rate Rs.	58.20							
	Add 8% A.W Rs.	4.66							
	Total Rate Rs.	**62.86**							
2	Removing BS Slab of drain and stacking.								
	(P.No.28, I.No.5.32 of PW,P&IWTD S.R 2011-12)								
		Sqm							
	For Existing drain sides								
			2	190.00	1.35	--	513.00		
							513.00		
	Deduct 20% for missing slabs		20%	513.00	--	--	102.60		
						Net Qty	**410.40**	47.52	**19502.00**
	Basic Rate Rs.	44.00							
	Add 8% A.W Rs.	3.52							
	Total Rate Rs.	**47.52**							
3	Refixing stone slabs of drains and pointing in CM 1:3.								
	(P.No.28, I.No. 5.33 of PW,P&IWTD S.R 2011-12)								
	Qty Same as I.No.1	Sqm	--	--	--	--	**410.40**	59.40	**24378.00**
	Basic Rate Rs.	55.00							
	Add 8% A.W Rs.	4.40							
	Total Rate Rs.	**59.40**							
4	KSRB 2-2.1: Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead up to 50 m. after breaking of clods complete as per specification. (Page No.5 item No.2.3)								
	Culvert	Cum	6	7.50	2.00	1.20	108.00		
	For drain		1	250.00	1.00	1.00	250.00		
							358.00	144.72	**51810.00**
	Basic Rate Rs.	134.00							
	Add 8% A.W Rs.	10.72							
	Total Rate Rs.	**144.72**							

5	Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (P.No.12, I.No.4.3 of PW,P&IWTD S.R 2011-12)								
		Cum							
	Culverts		6	7.50	2.00	0.15	13.50		
	For drain		1	250.00	1.00	0.15	37.50		
							51.00	3939.41	**200910.00**
	Basic Rate Rs.	3647.60							
	Add 8% A.W Rs.	291.81							
	Total Rate Rs.	**3939.41**							
6	KSRB - 5.2.3: Providing and constructing **granite size stone masornry in foundation cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m.apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P.No.25, I.No.5.6 of PW, P&IWTD SR 2011-12)								
		Cum							
	Culverts		6 X 2	7.50	0.60	1.00	54.00		
							54.00	2827.87	**152705.00**
	Basic Rate Rs.	2618.40							
	Add 8% A.W Rs.	209.47							
	Total Rate Rs.	**2827.87**							
7	KSRB - 15.1.1: Providing flush pointing to square rubble, course or uncoursed stone masonry with **CM 1:3,** 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.119, I.No.15.1 of PW, P&IWTD SR 2011-12)								
		Sqm							
	Culverts		6 X 2	7.50		1.00	90.00		
							90.00	79.73	**7175.00**
	Basic Rate Rs.	73.82							
	Add 8% A.W Rs.	5.91							
	Total Rate Rs.	**79.73**							
8	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (7.50cms thick) (P.No.28, I.No.5.31.1 of PW,P&IWTD SR 2011-12.)								
	For BS Slab Drain	Sqm							
	Consider missing qty @ 30% As per I.No.2		30%	102.60	--	--	102.60		
							102.60	327.24	**33574.82**
	Basic Rate Rs.	303.00							
	Add 8% A.W Rs.	24.24							
	Total Rate Rs.	**327.24**							

9	KSRB - 4-1.6: Providing and laying in position **plain cement concrete of mix M15** with cement @ 240 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (P.No.12, I.No.4.6 of PW, P&IWTD SR 2011-12)								
	Coping		6 X 2	7.50	0.60	0.10	5.40		
	For ramp flogging		8	7.50	0.35	0.20	4.20		
							9.60	4462.34	**42839.00**
	Basic Rate Rs.	4131.80							
	Add 8% A.W Rs.	330.54							
	Total Rate Rs.	**4462.34**							
10	KSRRB M300-53: Construction of embankment with approval material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications. (which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) (P No. 156 / i 19.60 SR 2011-12)								
		Cum							
	For Drain		1	250.00	1.00	0.10	25.00		
							25.00	146.88	**3672.00**
	Basic Rate Rs.	136.00							
	Add 8% A.W Rs.	10.88							
	Total Rate Rs.	**146.88**							
11	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC Works laid in 15cms thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3 with all lead and lift etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed Cement concrete for Beams, Columns Staircase and Roof with M-20 (1:1.5:3) (Cement 320kg/cum) (Page No.19 item No.4.49.1)								
		Cum							
	Culvert		6	7.50	1.80	0.23	18.63		
	For Drain		1	250.00	2.00	0.10	50.00		
							68.63	5001.91	**343281.00**
	Basic Rate Rs.	4631.40							
	Add 8% A.W Rs.	370.51							
	Total Rate Rs.	**5001.91**							
12	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per specifications. Specification No KBS 4.6.2. (Page No.17 item No.4.30)								
	Culvert	Sqm	6	7.50	0.60		27.00		
			6	19.00		0.25	28.50		
	For drain		4	250.00		0.90	900.00		
							955.50	291.60	**278624.00**
	Basic Rate Rs.	270.00							
	Add 8% A.W Rs.	21.60							
	Total Rate Rs.	**291.60**							

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13	KSRB 4.9.2: Providing TMT. Steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and /or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, lobour, HOM of machinery complete as per specifications. (Page No. 19 item No.4.46)					
	110% of Qty vide Item No. 11	Qtl	20.00	1.10	22.00	140422.00
	Basic Rate Rs. 5910.00 Add 8% A.W Rs. 472.80 Total Rate Rs. 6382.80				22.00	6382.80
14	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 5.00 Km (Page No.141)					
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00	Cum				
	Average weight of earth 1.28 tonne / kg for 5X1.28X2.00=12.80 PAGE NO.147	12.80	Qty vide Item No.01 + 04	--	1136.40	81.00
	Add loading and unloading Vide item no.17.1 P.no.141	62.20				
		75.00				
	Area Weightage @ 8%	6.00				
	Total	81.00				
15	Miscelleneous & Rounding off					2400.70
					Toatl Rs.	1950000.00
	(Rupees:- Nineteen Lakhs fifty Thousand)					

CERTIFICATE:

1 The work spot has been inspected me and the work is found to be necessary.
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2011-2012.
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

Assistant Engineer
Ward No. 07

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

ADMINISTRATIVELY SANCTIONED FOR Rs. 19,50,000.00/-

Rupees Nineteen Lakh Fifty Thousand only

Under P-1771 POW 11-12

Registered as EE(Y) No. 98-13

Subject to conditions contained in enclosed memo EE(Y) No. 203 /12-13

Dt. 14/05/12 Estimate Administrative Sanctioned Jc/Yel/AA/12-13 No. 203 dated 14/05/12 Rs. 19,50,000.00/-

Joint Commissioner
(Byatarayanapura)

Technical Sanction for Rs. 1950000-00/-
Nineteen Lacs Fifty Thousand
under P-1771 POW 11-12
registered as EE No: 98/15-5-12 Subject to conditions contained enclosed memo, No: 98/12-13/ Dt. 15-5-12

AE/JE

EE (BTP. Div.)